

#### ABSTRACT OF THE DISCLOSURE

A system for detecting spark in an igniter for a gas turbine engine. An igniter generates a plasma, or spark, somewhat similar to an automotive spark plug. In the invention, an inductive pick-up is positioned adjacent the igniter, to detect current pulses in the igniter, to thereby infer the presence of spark. The signal produced is small, and requires amplification. However, the environment is hot, often exceeding 400 degrees F. The invention utilizes an amplifier composed of passive components, in the form of an RLC circuit.